



TEST REPORT

Report No. : WTX24X11277707C
Applicant : Lumi United Technology Co., Ltd
Address : Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China
Manufacturer : Same as Applicant
Address : Same as Applicant
Sample Name : Hub M100
Model No. : HM-G02E, HM-G02D
Sample Material : NA
Supplier : NA
WEEE requirement compliance : Pass
Date of Receipt sample : 2024-12-16
Testing period : 2024-12-16 ~ 2024-12-23
Date of Issue : 2024-12-24
Test Result : Refer to next page (s)

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

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Signed for and on behalf of
Waltek Testing Group (Shenzhen) Co., Ltd.

Hugo.CHen

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Waltek Testing Group (Shenzhen) Co., Ltd.

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Report No. : WTX24X11277707C

Product weight..... : 24.29g

Reference Model No. : NA

Brand..... : Aqara

Category under the Waste electrical and electronic equipment (WEEE) Directive 2012/19/EU:
ANNEX III..... : 5 Small equipment

Result of Reuse/Recycling/Recovery Assessment

Recovered /Re-use and recycled	Recovered (%)	Re-use and recycled (%)
Minimum targets applicable by category from 15 August 2018 under the 2012/19/EU WEEE Directive	75	55
Result of Assessment	84.25	75.69
WEEE requirement compliance	OK	OK

Remarks:

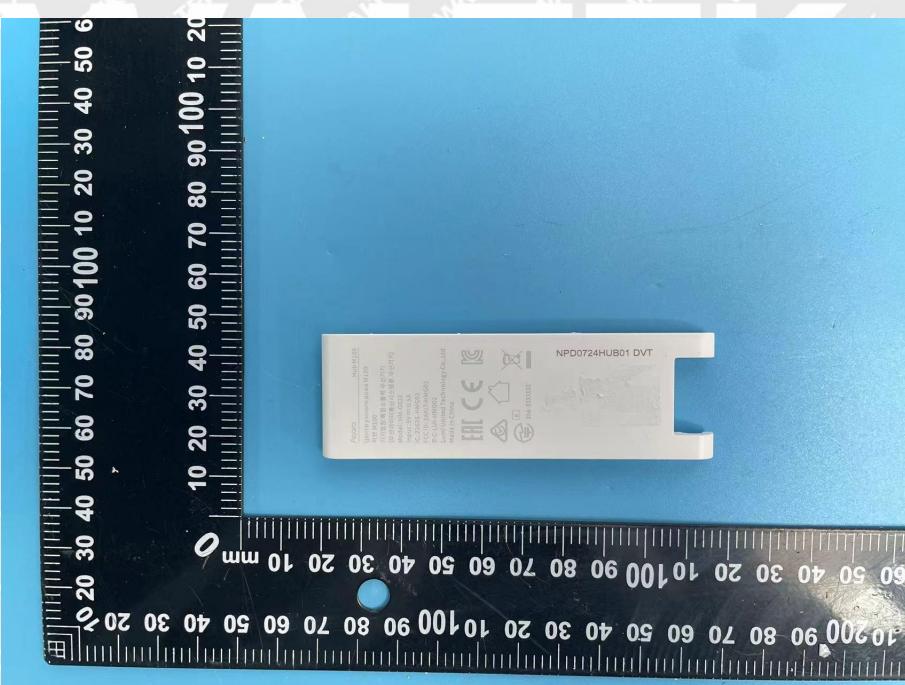
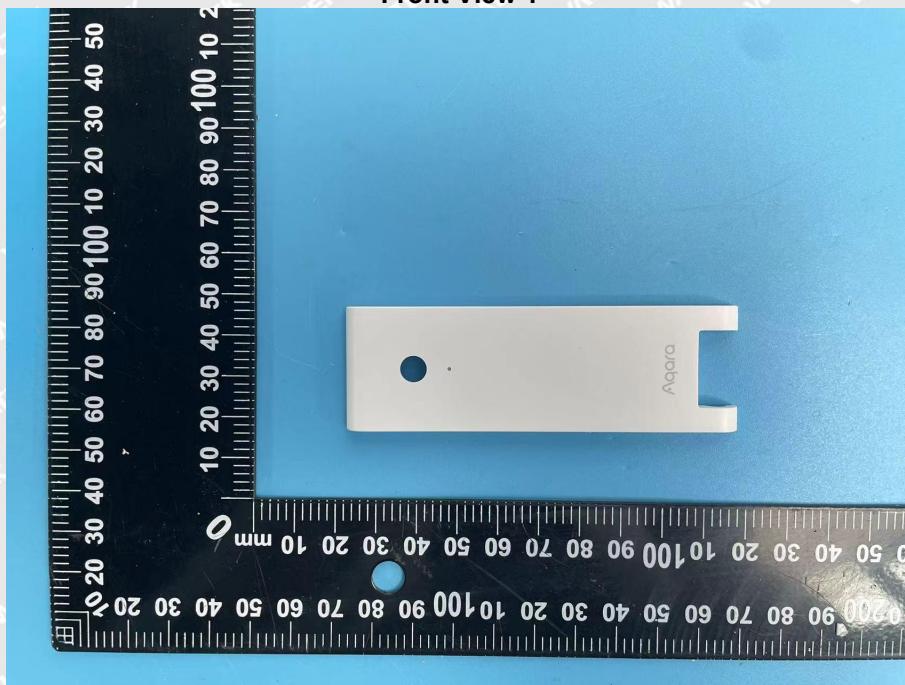
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Report No. : WTX24X11277707C

1. Appearance of the product

Front View 1





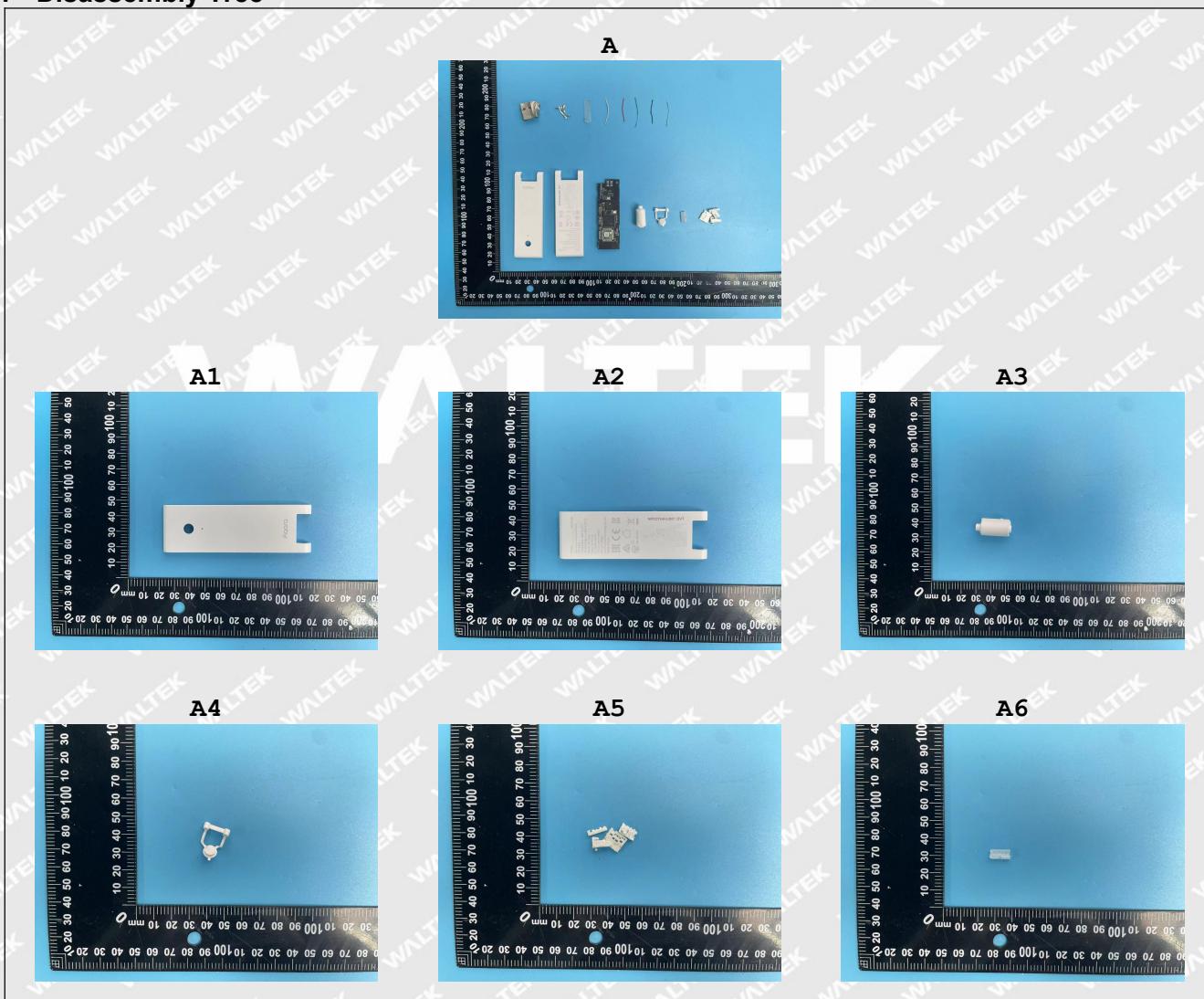
Report No. : WTX24X11277707C

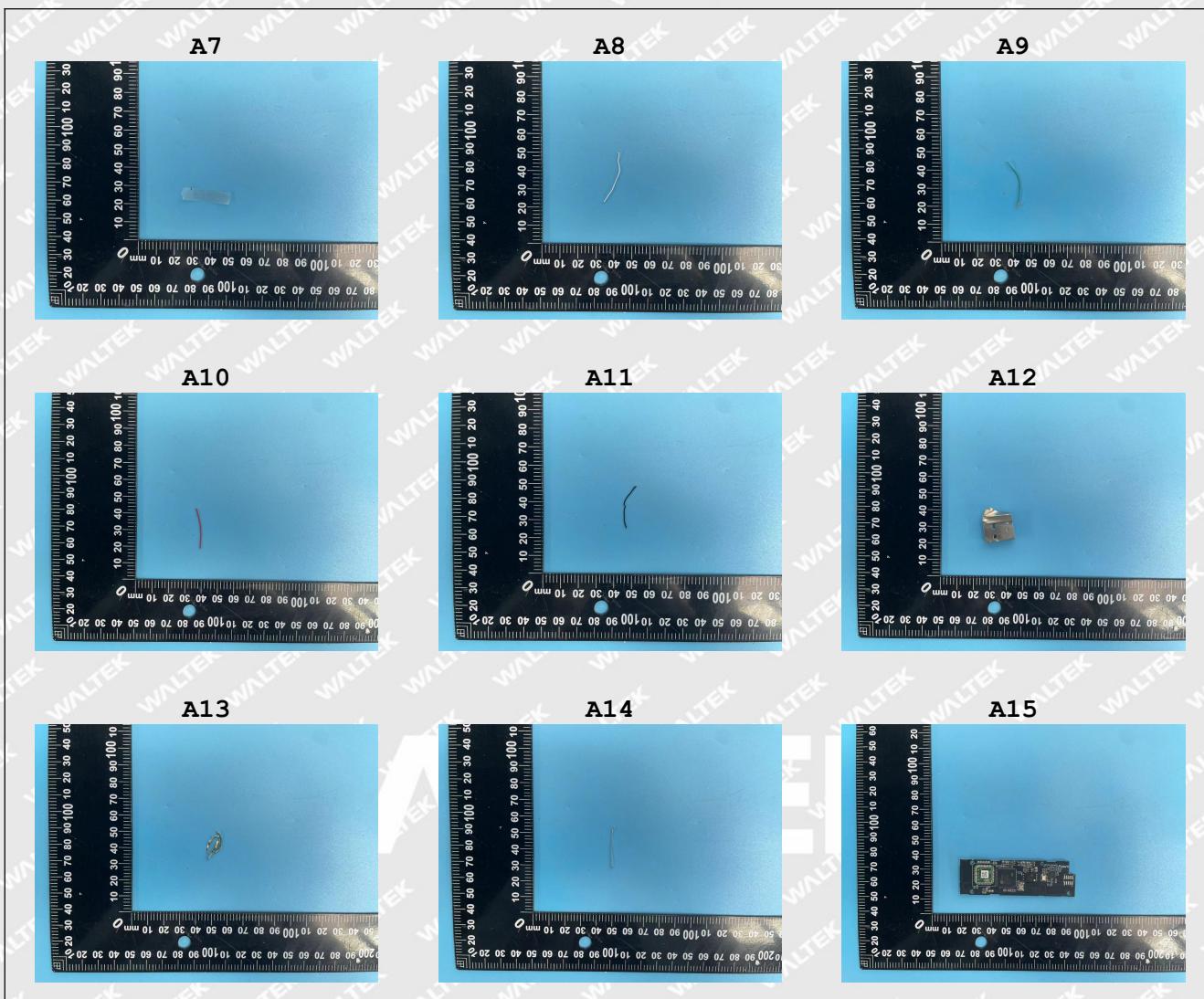
2. Selective Treatment for Materials and Components

According to Article 8(2) and the annex VII of the WEEE Directive, this product contains components and material items are described in the following table.

Component/Material	Photo No.	Size & Quantity	Weight (g)
PCB	A15	7.60cm*2.60cm	6.98
	--	--	--
	--	--	--
	--	--	--
Display screen	--	--	--

3. Disassembly Tree





4. Disassembly procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex II of the WEEE Directive. In addition, to consider economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused, recycled and recovered.

4.1 Connection technique:

For this product, the connection technology including as following:

Screw: 0

Cell: 0

Glue: 0

4.2 Disassembly time:

5 minutes.Dec.23,2024



5. Materials and Recycling Information

According to the information declared by the applicant company, the material and recycling information for this product is described in the following table.

The reuse, Recycling and recovery assessment for this product is based upon economic and efficiency considerations, and the waste treatment technologies and equipment that are most frequently available to the market.

Photo No.	Component/Material Composition	Weight (g)	Percent weight (%)	Recovered (%)	Re-use and recycled (%)
A15	Printed circuit board, the surface is more than 10 cm ²	6.98	28.74	20.12	18.68
--	Printed circuit board, the surface is less than 10 cm ²	--	--	--	--
--	Display screen	--	--	--	--
--	Glass	--	--	--	--
A12,A13,A14	Metal part	1.36	5.60	5.04	4.48
A1,A2,A3,A4,A5,A6,A7,A8,A9,A11	Plastic part	15.95	65.66	59.10	52.53
--	Other	--	--	--	--
Total		24.29	100	84.25	75.69

Note:

Due to their insignificant weight and the difficulty of their separation in a manual operation, sticker, solder, paint and printing materials are not included in this assessment.

Plastic containing brominated flame retardants is not assessed in the list.

6. Recycling and recovery rate calculation

Reuse Recycling & Recovery Rate using in the report are calculated as following formulas:

Reuse & Recycling Rate (%)=Reuse & Recycling Weight / Product total weight

Recovery Rate= Reuse & Recycling Weight + Energy Recovery Weight / Product total weight

Total weigh of the product is including the main product and accessories.

7. ANNEX II of WEEE Directive

Selective treatment for materials and components of waste electrical and electronic equipment:

_ Polychlorinated biphenyls(PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) (1),

- Mercury containing components, such as switches or backlighting lamps,
- Batteries,
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board of greater than 10 square centimetres,



Report No. : WTX24X11277707C

- Toner cartridges, liquid and pasty, as well as colour toner,
- Plastic containing brominated flame retardants,
- Asbestos waste and components which contain asbestos,
- Cathode ray tubes,
- Chlorofluorocarbons(CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons(HFC), hydrocarbons (HC)
- Gas discharge lamps,
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps,
- External electric cables,
- Components containing refractory ceramic fibres as described in commission directive 97/69/EC of 5 December 1997 adapting to technical progress council directive 67/548/EEC relating to the classification, packaging and labeling of dangerous substances,
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation,
- Electrolyte capacitors containing substance of concern (height>25mm, diameter>25mm or proportionately similar volume)

8. Recommendations for WEEE Directive compliance

- In order to avoid the product not meeting the reuse/recycling/recovery targets regulated under the WEEE Directive and the regulations of EU countries, the applicant company should, when selecting material and components design, consider they can be easy to reuse and recycle. This consideration will lessen the impact of the required international environmental directives and also improve the product's competitiveness.
- It is recommended that the applicant company, when designing new product, especially where components and materials have a large weight ratio, should consider using recyclable materials in order to increase the product's reuse/recycling/recover ratio.
- The product should apply to the RoHS Directive (Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment). The hazardous substance specification in the directive should be controlled in the homogenous material of this product.
- If a product has change its product design, or materials or components employed, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycling/recovery assessment and RoHS for restricted/banned substances requirements.

===== End of Report =====